

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

SNYGG et al

Atty. Ref.: 3670-33

Serial No. to be assigned

Group: unknown

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For: DEVICE AND METHOD FOR IMPROVED FILTERING IN A RADIO
RECEIVER IN THE MICROWAVE RANGE

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Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

In order to place the above-identified application in better condition for examination, please amend the application as follows:

IN THE CLAIMS

Please substitute the following amended claims for corresponding claims 1-8 previously presented. A copy of the amended claims showing current revisions is attached.

1. {AMENDED} A system for radio communication in the microwave range, comprising a transmitting device and a receiving device, said transmitting device comprising a transmitter, an antenna, a filter with variable filter characteristics, and a device for controlling the variable filter, and said receiving device comprising a receiver, an antenna, a filter with variable filter characteristics, and a device for controlling the variable filter, the system being characterized in that

the filters are arranged between the antenna and the transmitter, and the antenna and the receiver, respectively,

the filters have variable filter characteristics,

each of said devices for controlling the respective filters are responsive to control signals from an external source,

whereby the frequency range at which the respective device and thereby the whole system operates can be controlled during operation.

2. {AMENDED} A system according to claim 1, in which the external source for control signals for the device for controlling the variable filter in the transmitting device is the device for controlling the variable filter in the receiving device and vice versa, whereby the two control devices are in communication with each other.

3 {AMENDED} A system according to claim 1, in which the external source for control signals for the device for controlling the variable filter in the transmitting device and in the receiving device is a central control device.

4. {AMENDED} A system according to claim 1, in which the variable filters in the transmitting device and in the receiving device are bandpass filters.

5. {AMENDED} A system according to claim 1, in which the variable filters in the transmitting device and in the receiving device are notch filters.

6. {AMENDED} A method for use in a system for radio communication in the microwave range, the system having a transmitting device and a receiving device, said transmitting device comprising a transmitter, an antenna, a filter with variable filter characteristics, and a device for controlling the variable filter, and said receiving device comprising a receiver, an antenna, a filter with variable filter characteristics, and a device for controlling the variable filter, the method being characterized in that

arranging the filters between the antenna and the transmitter, and the antenna and the receiver, respectively,

providing the filters with variable filter characteristics,

SNYGG et al
Serial No. to be assigned

making each of said devices for controlling the respective filters responsive to control signals from an external source,

whereby the frequency range at which the respective device and thereby the whole system operates can be controlled during operation.

7. {AMENDED} A method according to claim 6, in which the external source whose control signals the device for controlling the variable filter in the transmitting device is responsive to is the device for controlling the variable filter in the receiving device and vice versa, whereby the two control devices are in communication with each other.

8. {AMENDED} A method according to claim 6, in which the external source whose control signals the device for controlling the variable filter in the transmitting device and in the receiving device are responsive to is a central control device.

REMARKS

The above amendments are made to place the claims in a more traditional format.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version With Markings To Show Changes Made."

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS

1. {AMENDED} A system [(500)] for radio communication in the microwave range, comprising a transmitting device and a receiving device, said transmitting device comprising a transmitter [(530)], an antenna [(510')], a filter [(520')] with variable filter characteristics, and a device [(550')] for controlling the variable filter [(520')], and said receiving device comprising a receiver [(540)], an antenna [(510)], a filter [(520)] with variable filter characteristics, and a device [(550)] for controlling the variable filter [(520)], the system being the system being characterized in that

the filters [(520,520')] are arranged between the antenna and the transmitter, and the antenna and the receiver, respectively,

the filters have variable filter characteristics,

each of said devices [(550,550')] for controlling the respective filters are responsive to control signals from an external source,

whereby the frequency range at which the respective device and thereby the whole system [(500)] operates can be controlled during operation.

2. {AMENDED} A system [(500)] according to claim 1, in which the external source for control signals for the device for controlling the variable filter [(520')] in the transmitting device is the device [(550)] for controlling the variable filter [(520)] in the receiving device and vice versa, whereby the two control devices are in communication with each other.

3 {AMENDED} A system [(500)] according to claim 1, in which the external source for control signals for the device for controlling the variable filter [(520',520)] in the transmitting device and in the receiving device is a central control device.

4. {AMENDED} A system according to [any of claims 1-3] claim 1, in which the variable filters [(520',520)] in the transmitting device and in the receiving device are bandpass filters.

5. {AMENDED} A system according to [any of claims 1-3] claim 1, in which the variable filters [(520',520)] in the transmitting device and in the receiving device are notch filters.

6. {AMENDED} A method for use in a system [(500)] for radio communication in the microwave range, the system having a transmitting device and a receiving device, said transmitting device comprising a transmitter [(530)], an antenna [(510')], a filter [(520')] with variable filter characteristics, and a device [(550')] for controlling the variable filter [(520')], and said receiving device comprising a receiver [(540)], an antenna [(510)], a filter [(520)] with variable filter characteristics, and a device [(550)] for controlling the variable filter [(520)], the method being characterized in that

arranging the filters [(520,520')] between the antenna and the transmitter, and the antenna and the receiver, respectively,

providing the filters with variable filter characteristics,

making each of said devices [(550,550')] for controlling the respective filters responsive to control signals from an external source,

whereby the frequency range at which the respective device and thereby the whole system [(500)] operates can be controlled during operation.

7. A method according to claim 6, in which the external source whose control signals the device for controlling the variable filter [(520')] in the transmitting device is responsive to is the device [(550)] for controlling the variable filter [(520)] in the receiving device and vice versa, whereby the two control devices are in communication with each other.

8. {AMENDED} A method [(500)] according to claim 6, in which the external source whose control signals the device for controlling the variable filter [(520',520)] in the transmitting device and in the receiving device are responsive to is a central control device.